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<u>AMENDMENTS TO THE CLAIMS:</u>

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Original) A method for organizing alerts into alert classes, both the alerts and 1. alert classes having a plurality of features, the method comprising the steps of:
 - (a) receiving a new alert;
- (b) identifying a set of potentially similar features shared by the new alert and one or more existing alert classes;
 - (c) updating a minimum similarity requirement for one or more features;
 - (d) updating a similarity expectation for one or more features;
 - (e) comparing the new alert with one or more alert classes, and either:
- (f1) associating the new alert with the existing alert class that the new alert most closely matches; or
 - (f2) defining a new alert class that is associated with the new alert.
- (Original) The method of claim 1 further comprising the step (a1) of passing each 2. existing alert class through a transition model to generate a new prior belief state for each alert class.
- (Original) A method for organizing alerts having a plurality of features, each 3. feature having one or more values, the method comprising the steps of:
- (a) generating a group of feature records for a new alert, each feature record including a list of observed values for its corresponding feature;
- (b) identifying a set of potentially similar features shared by the new alert and one or more existing alert classes that are associated with previous alerts;
 - (c) comparing the new alert to one or more alert classes;
- (d) rejecting a match if any feature for which a minimum similarity value has been set fails to meet or exceed the minimum similarity value;
 - (e) adjusting the comparison by an expectation that certain feature values will or will

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not match, and either:

- (f1) associating the new alert with the existing alert class that the new alert most closely matches; or
 - (f2) defining a new alert class that is associated with the new alert.
- 4. (Original) In an intrusion detection system that includes a plurality of sensors, each of which generates alerts when attacks or anomalous incidents are detected, a method for organizing the alerts comprising the steps of:
 - (a) receiving an alert;
- (b) identifying a set of features that may be shared by the received alert and one or more existing alert classes;
- (c) setting a minimum similarity value for one or more features or feature groups; comparing the new alert to one or more of the alert classes, and either:
- (d1) defining a new alert class that is associated with the received alert if any feature or feature group that has a minimum similarity value fails to meet or exceed its minimum similarity value; or
- (d2) associating the received alert with the existing alert class that the received alert most closely matches.
- 5. (Original) A method for organizing alerts into alert classes, both the alerts and alert classes having a plurality of features, the method comprising the steps of:
 - (a) receiving a new alert;
- (b) identifying a set of potentially similar features shared by the new alert and one or more existing alert classes;
 - (c) updating a minimum similarity requirement for one or more features;
 - (d) comparing the new alert with one or more alert classes, and either:
- (e1) associating the new alert with the existing alert class that the new alert most closely matches; or
 - (e2) defining a new alert class that is associated with the new alert.

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- (Original) A method for organizing alerts having a plurality of features, each 6. feature having one or more values, the method comprising the steps of:
- (a) generating a group of feature records for a new alert, each feature record including a list of observed values for its corresponding feature;
- (b) identifying a set of potentially similar features shared by the new alert and one or more existing alert classes that are associated with previous alerts;
 - (c) comparing the new alert to one or more alert classes;
- (d) rejecting a match if any feature for which a minimum similarity value has been set fails to meet or exceed the minimum similarity value, and either:
- (e1) associating the new alert with the existing alert class that the new alert most closely matches; or
 - (e2) defining a new alert class that is associated with the new alert.